MSRR IC Meeting Agenda

DMSO

- **Introduction**
- **9/30 MSRR Technical Capabilities**
- **MSRR Documents**
- **Information Domain Concept**
- **Information Domain Categories**
- **ID & IDC Rules**
- **ID Decomposition Methodology**
- **ID Analysis Tool**
- **Discussion**
- **Action Items**

Support Needed

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- Today's participation
- Timely responses to the action items

9/30 MSRR Technical Capabilities

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- **10+ nodes linked and operational**
  - **with MSRR-provided search engines**
- **Web-based automatic registration and approval for users, nodes, & resources**
- **24-hour operation with Master Node mirrored**
- **Initial information domains and IDCs identified**
- **Organizational Domain Category populated**
- **Submitted resources registered**
- **Structured forms-based queries against registration metadata enabled over the WWW**

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Overview of MSRR Documents

- *Operational Concept Description (OCD) - Draft 31 Jul*
- **Architecture Document - Draft 23 Aug**
- *Configuration Management Plan - Final Draft 1 Aug*
- **Software Development Plan (SDP)- Draft 16 Aug**
- **Operations Guide- Draft 30 Aug**
- **MSRR User's Guide- Draft 30 Aug**
- **Requirements Document (SSS) - Draft 20 Sep**
- **System/Subsystem Design Description (SSDD) - Draft 30 Oct**

MSRR OPERATIONS GUIDE

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* OVERVIEW

*CONVENTIONS

* INTERFACES

* “INTRAFACES”

* SECURITY- data integrity

APPENDICES

* NODE SPECIFICATION
* NODE INSTALLATION PROCEDURES
* NA GUIDE
* SECURITY SPECIFICATIONS
*IDC GUIDE
*REGISTRAR PROCEDURES

MSRR USERS GUIDE

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* Using the MSRR
* Scope
* User Workstation Config.
* Use of MSRR
* Security
* Getting Assistance
* First Time User
* First Time Guidance
* Experienced Users Guide
* Additional Information

APPENDICES

* Registration Guidelines
* Quality Criteria
* Security/ Releasibility Guidelines
* Frequently Asked Questions (Generic)

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INFORMATION DOMAIN AND INFORMATION DOMAIN COORDINATORS CONCEPTS

DMSO

- PURPOSE
- DEFINITIONS
  - Information Domain (ID)
  - Information Domain Coordinator (IDC)
- IDC ROLES & RESPONSIBILITIES
- IDCWG RESPONSIBILITIES
- M&S DOMAIN CONCEPT

ID AND IDC CONCEPTS BRIEF-PURPOSE

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- PRESENT PROPOSED:
  - DEFINITIONS
  - CONCEPTS
  - PROCESS
  - RULES
  - METHODOLOGY
- DISCUSS PRESENTATION AND INFORMATION DOMAINS

DEFINITION OF ID

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Information domains are defined as “logical” groupings of related information divided into distinct M&S organizations, functions, technologies, and/or products.

DEFINITION OF IDC

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Information Domain Coordinators are people who have the ultimate responsibility for the outside world's view of the content and organization of the content within their information domain.

IDC ROLES & RESPONSIBILITIES

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- Analyze, design, develop and maintain domain taxonomy to support user needs.
- After DMSO approval, register domain with MSRR Registrar and establish links for its home page from Welcome Page and other pages.
- Coordinate with Node Administrators (NAs)
- Administer multiple Domain Home Pages (including conventions, security, and releasibility).
- Liaison with MSRR Registrar.
- Obtain/maintain current knowledge of information within domains
- Maintain jurisdiction over the information content of their areas
- Identify and recommend new information domain/sub-domain areas
- Coordinate with and manage (as appropriate) Information sub-Domain Coordinators (Isub-DCs)

IDC ROLES & RESPONSIBILITIES (Cont.)

DMSO

- Support MSRR Help Desk operations
- Coordinate the information management over multiple MSRR nodes
- Participate (e.g., recommend domain changes) in IDC Working Group
- Coordinate with related IDCs especially in overlap areas
- Recommend areas needing R&D support to the MSRR
- Liaison with Authoritative Data Sources (ADS)
- Perform QA/QC on all Domain Information
- Develop and maintain CM procedures/plan compatible with the MSRR CM plan
- Complete necessary paperwork (if necessary) with CC
- Respond to CC on all MSRR matters.

IDCWG RESPONSIBILITIES

DMSO

- Identify and define/refine MSRR taxonomy
- Identify and define/refine Information Domains to CC
- Address and develop consensus on organization of Information Domains
- Assist the IDCs
- Address and develop consensus on data/information/knowledge problems, issues, needs of M&S community (such as filling in data voids) that cross Information Domains
- Present issues and recommendations to CC for approval
- Recommend the development of technical, administrative, and operational support tools for use by the IDCs and Isub-DCs.

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MSRR - Library Analogy: Stocking the Shelves

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- Recall the prehistoric days before the WWW, CD, Video cassettes, etc.
- Each library had a Subject catalog, Author catalog, and Title catalog
- Each library had its own set of books on shelves, and books that could be obtained from other libraries.

Who built and maintained the catalogs?*

Who put/removed the books on/from the shelves?*

What happened when a new book came in?*

What function did the book **jackets** serve?*

*Answers not posted on WWW.

MSRR - Library Analogy: Stocking the Shelves - Answers

DMSO

For every book received, the Librarian

- created:
  - **a Dewey Decimal system tag for the book's spine.**
  - **a Subject card for the Subject card catalog**
  - **an Author card for the Author card catalog**
  - **a Title card for the Title card catalog**
- then placed the book on the shelf and the cards in their respective card catalogs!

MSRR - Library Analogy: Finding a Book

DMSO

To find a book, a person

- looks in the Author catalog if the author is known.
- looks in the Title catalog if the Title is known.
- searches through the Subject catalog if neither the Author nor Title is known.
- goes directly to the shelf where the book is.
- asks for help!

MSRR - Library Analogy: Explained

DMSO

- Books are the MSRR resources (FOMs, SOMs, Data, models, simulations, etc.)!
- Book jackets are the MSRR resource metadata!
- The card catalogs are the logical views into the MSRR registration metadata!
- The librarians are the information domain coordinators (with MSRR team assistance).

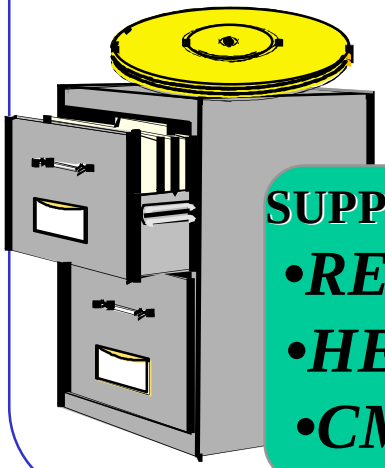
MSRR USERS' VIEW

DMSO

RESOURCE CONSUMERS

MSRR

INFORMATION DOMAIN CATEGORIES OF REGISTERED RESOURCES + INDEXED SEARCHES



SUPPORT STAFF:
- *REGISTRAR*
- *HELP DESK*
- *CM GROUP*

WWW

MSRR USERS

RESOURCE PROVIDERS

MSRR NODES containing *REGISTERED RESOURCES*

NON - MSRR NODES containing *REGISTERED RESOURCES*

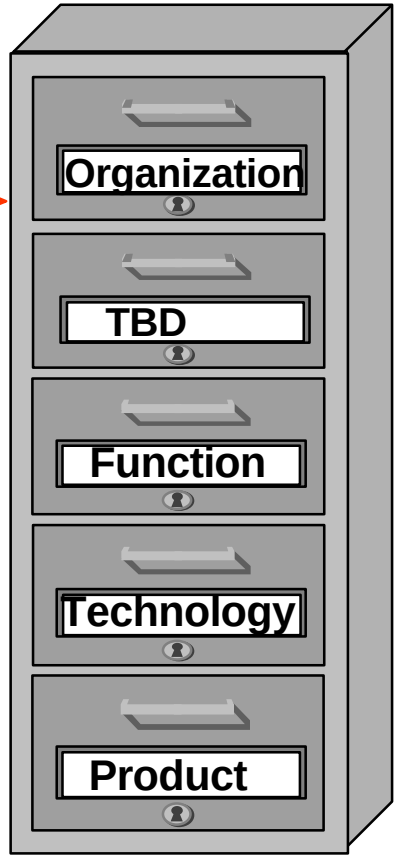
MSRR USER View of MSRR Registration and Information Domain Categories

DMSO

Resource Consumer View

User Query through Internet Interface

Resource List and "Hot Links" to Each Resource through Internet Interface

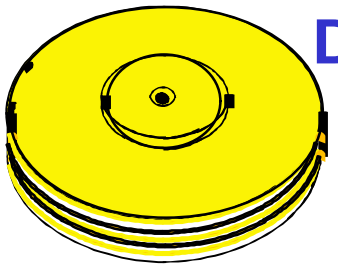


MSRR INFORMATION DOMAIN CATEGORIES

Resource Provider View

Metadata Fills Card Catalogs

MSRR Registration Database



(WWW Interface)

IDC/Provider Enters, Approves, Registers, Unregisters, and Modifies Taxonomy & Resources

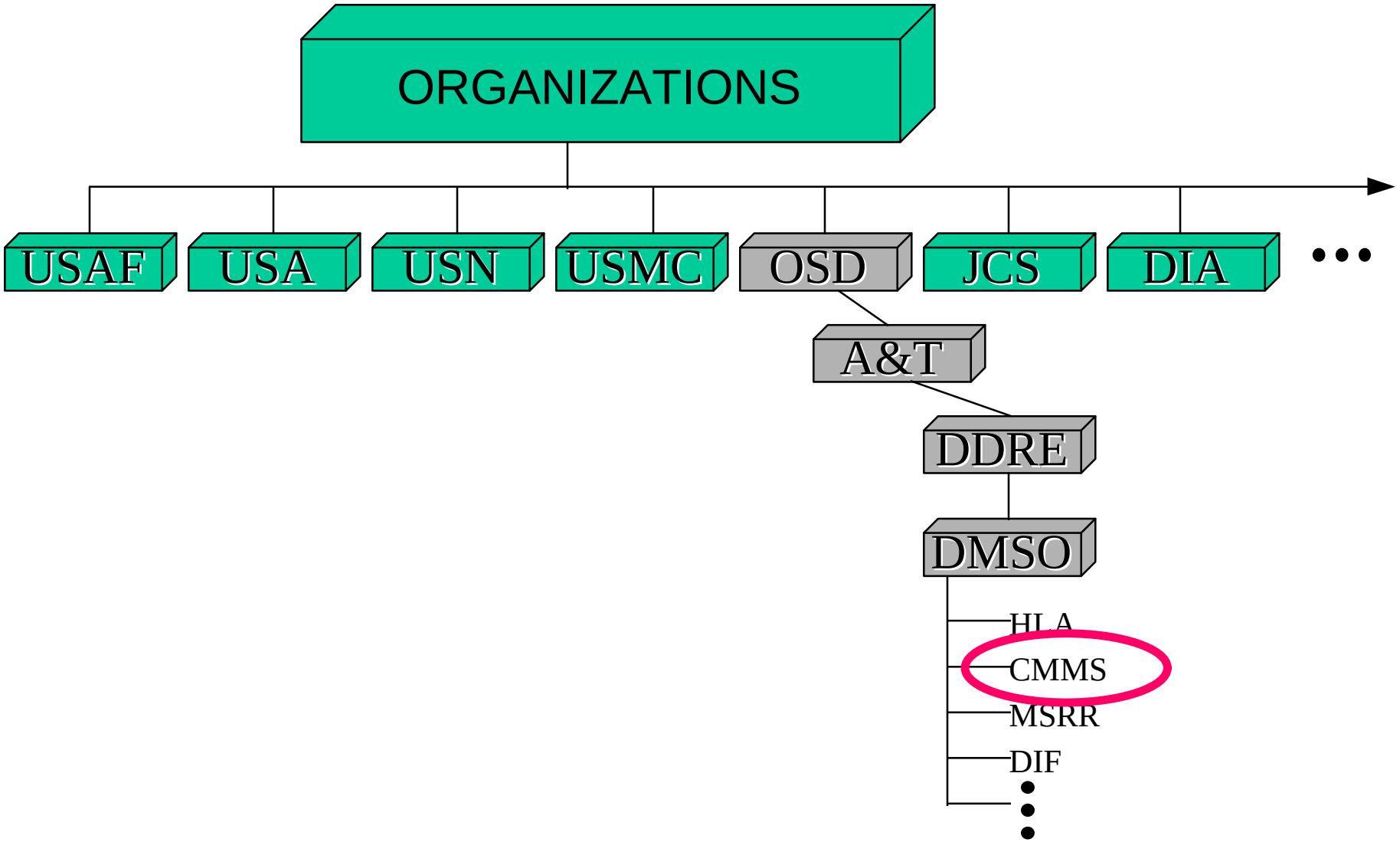
MSRR Information Domain Categories support the M&S Community

DMSO

- Name - **Short title of the M&S resource**
- Organizations - **M&S people/groups within the DoD**
- Functions - **mission and activities performed by the M&S organizations**
- Technologies - **building blocks of M&S products**
- Products - **things built from technologies to support M&S functions**

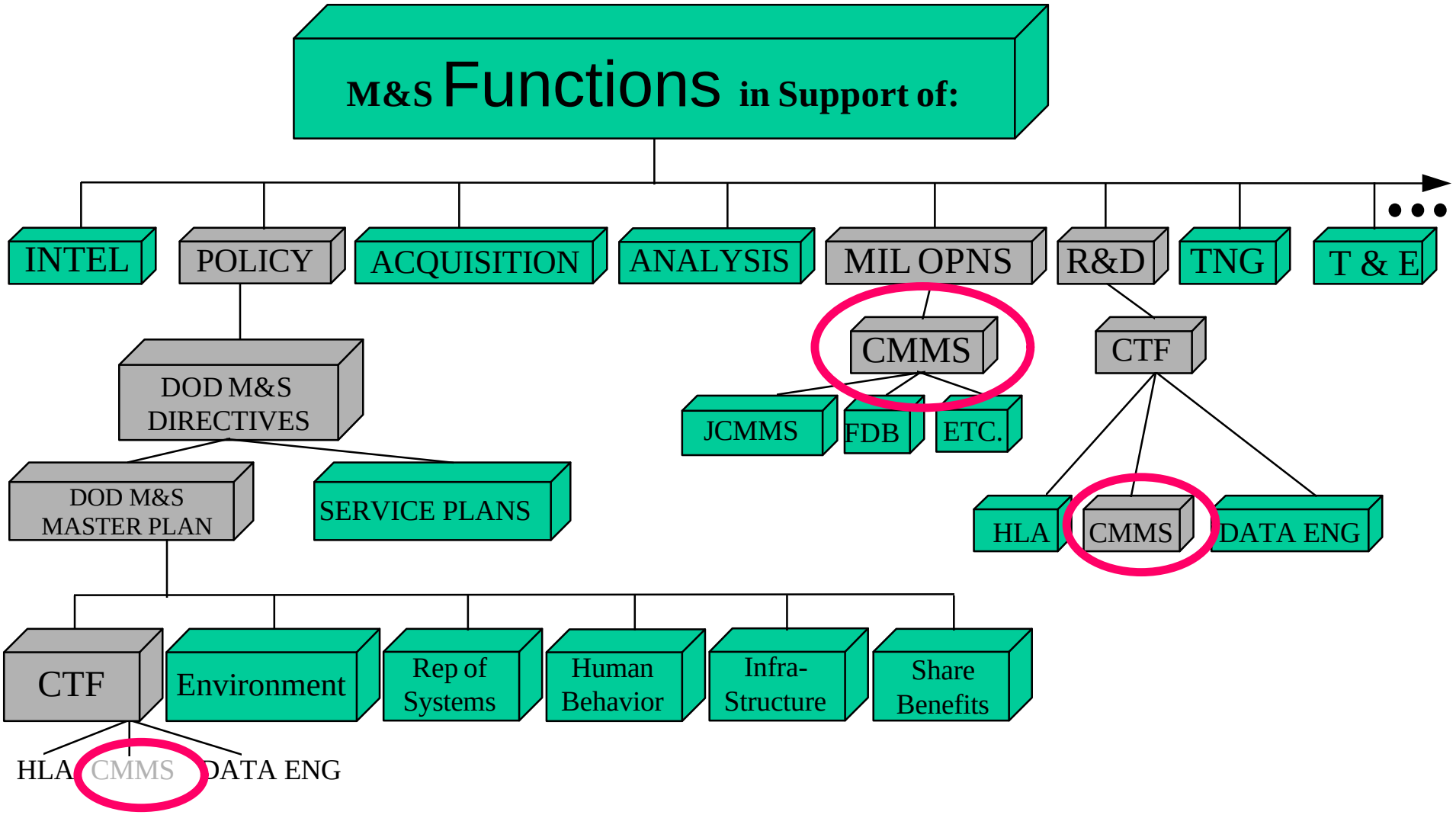
MSRR Information Domain Categories
Locate CMMS

DMSO



MSRR Information Domain Categories

DMSO



MSRR Information Domain Categories

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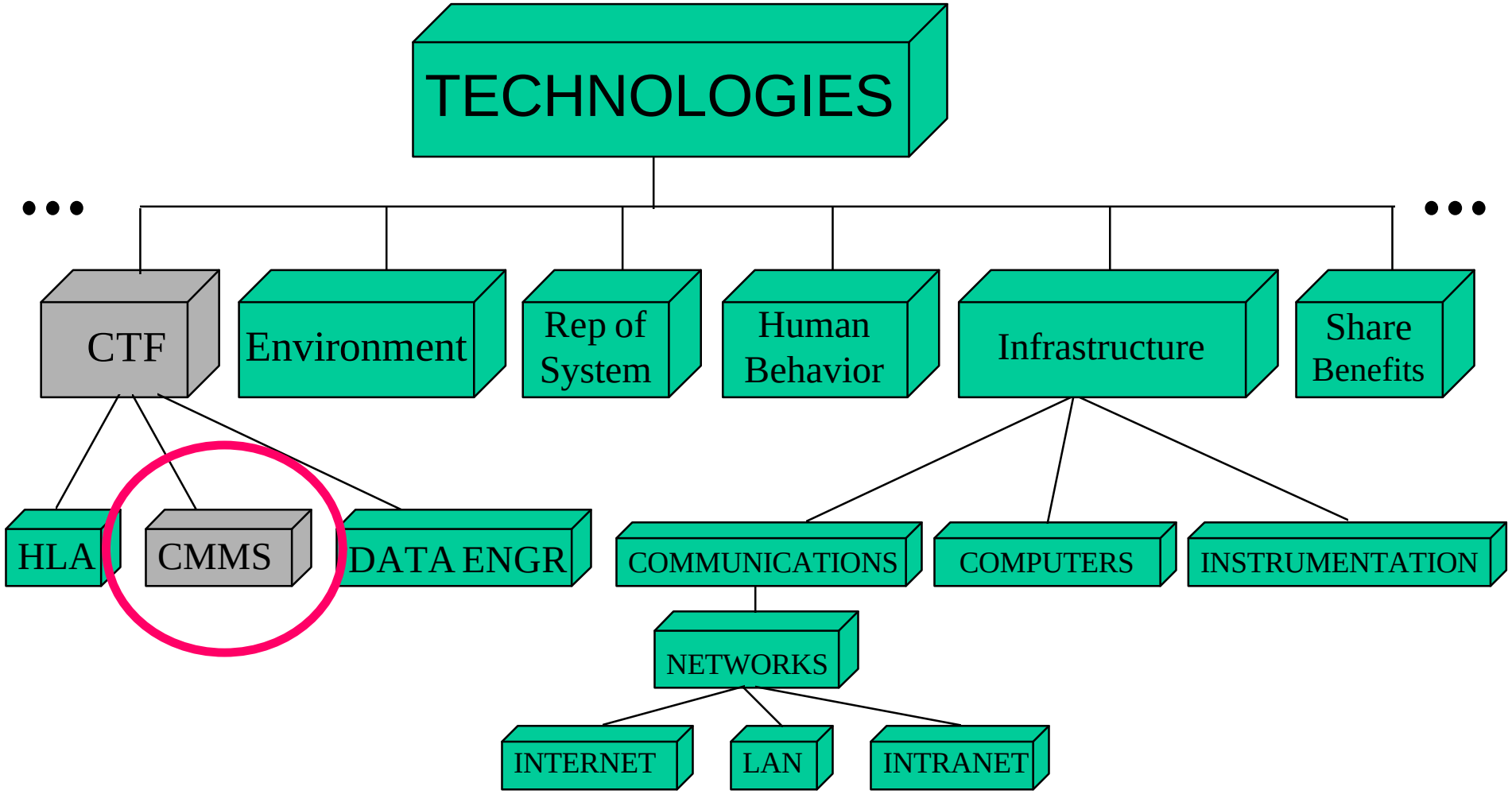

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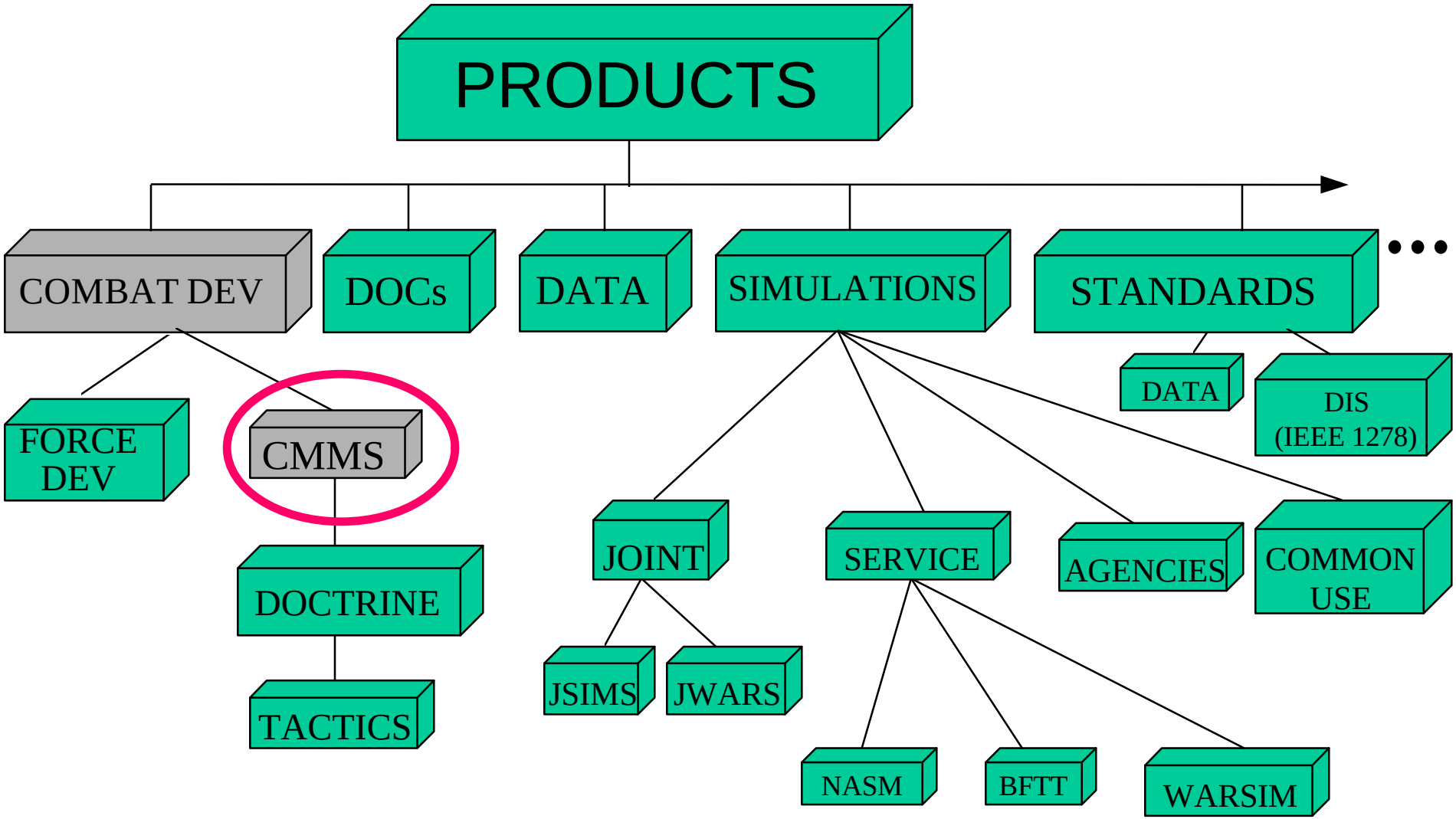

General Rules

DMSO

- The resource provider will maintain each resource.
- Every resource will reside in at least I ID within each Information Domain Category.
- Resource providers may submit resources for registration approval.

Information Domain Rules

DMSO

- IDCs are selected from the Organization Category.
- All IDs will be registered.
- Each ID will have a registered taxonomy.
- The MSRR taxonomy will be a superset of all ID taxonomies.

Information Domain Rules

DMSO

- All IDCs and resource providers will be registered.
- Every IDC will either include or exclude every resource nominated for registration or newly registered in an ID.
- The MSRR regsitrar will adjudicate resource registration requests not accepted into any ID.

IDC Rules

DMSO

IDC:

- analyzes and organizes their own domain.
- develops and registers domain taxonomy using automated tool.
- negotiates taxonomy changes with MSRR team and resource providers.
- maintains and develops the taxonomy to reflect domain changes.
- registers and unregisters resources and updates resource registration metadata.

IDC Rules

DMSO

IDC:

- **approves resource registration.**
- **reviews every resource registration request.**
- **rejects or accepts every resource into domain.**
- **rejects or accepts every resource registration modification.**
- **reviews registration entry results for accuracy.**
- **notifies NA and ensures “intraface” is modified whenever resource metadata is modified .**

IDC Domain Taxonomy Development Methodology

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- Identify User Community
- Compile Resources and Domain Structures
- Decompose Domain Resources
- Analyze the Domain
- Generate a Taxonomy
- Register the Taxonomy

Identify User Community

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- List all present providers/users of the domain's information resources
- List all potential providers/users of the domain's information resources

Compile Resources and Domain Structures

DMSO

- Contact providers/users to confirm existing and planned M&S resource availability/need
- Obtain from the providers/users any existing documented information structures they have available for their existing/planned resources

Identify and Decompose the Domain Resources

DMSO

In a working group session, discuss resources with provider/user community:

- Develop and list categories, sub-categories, sub-sub categories, etc. in which the resources fit
- Ask each provider/user to group resources under the categories, sub categories, sub-sub categories etc.

Import information into automated tool

Analyze the Domain

DMSO

- Review input into automated tool
- Make adjustments based upon those results

Generate a Taxonomy

DMSO

- View Initial Taxonomy created as a result of the input into the automated tool
- Compare Domain Taxonomy to MSRR Taxonomy
- Resolve Discrepancies and/or Evolve/Adapt Terminology and Groupings

Register the Taxonomy

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- Export Taxonomy to MSRR for registration
- Respond to questions/comments generated during Registration
- Modify Taxonomy as needed

(MSRR team may modify MSRR Taxonomy as appropriate)

Domain Analysis Tool

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- Primarily assists the IDCs to analyze and decompose their domains.
- Secondarily assists the Registrar to merge new domain taxonomies into the MSRR taxonomy.
- Closely follows the aforementioned methodology.
- Automatically stores results in a RDBMS.

Action Items

DMSO

Using the handouts provided with today's briefing posted at URL: huachuca-jdbe.army.mil/msrr/about/info_dmn

- Fill-out Organization Domain Category by 30 Aug
- Recommend top level Info Domains by 30 Aug
- Analyze and provide input for other Info Domain Categories by 10 Sep
- Nominate the highest and 2nd level IDCs by 20 Sep
- Comment on ID and IDC rules by 10 Sep
- Comment on IDC/ IDCWG roles and responsibilities by 20 Sep
- Comment on OCD by 20 Aug

Provide feedback to Janet McDonald & Gary Misch